

## Product datasheet

# Anti-CD42b antibody [EPR19204] ab210407

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-CD42b antibody [EPR19204]
<b>Description</b>	Rabbit monoclonal [EPR19204] to CD42b
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	within Human CD42b aa 250-350. The exact sequence is proprietary. Database link: <a href="#">P07359</a>
<b>Positive control</b>	WB: Human fetal spleen lysate. IHC-P: Human spleen, acute myelocytic leukemia and lung cancer tissues. IP: Human spleen whole cell lysate.

### General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise<sup>™</sup> guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19204
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab210407** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 72 kDa).
IP		1/40.
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

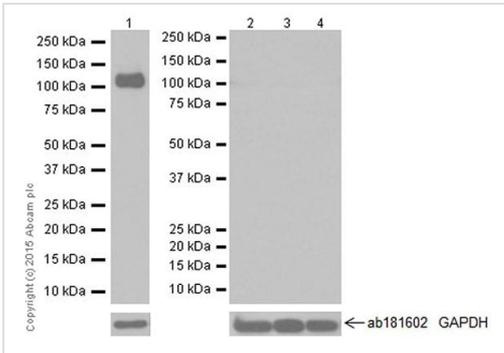
## Target

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<b>Relevance</b>	CD42b is a platelet activation marker involved in the process of coagulation as an aggregating factor. It interacts with extracellular matrix as well as with adhesion molecules. Its expression and activation seems to be regulated by VEGF and PDGF.
<b>Cellular localization</b>	Cell Membrane

## Images

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Western blot - Anti-CD42b antibody [EPR19204] (ab210407)

**All lanes** : Anti-CD42b antibody [EPR19204] (ab210407) at 1/10000 dilution

**Lane 1** : Human fetal spleen lysate

**Lane 2** : Human fetal brain lysate

**Lane 3** : Human fetal heart lysate

**Lane 4** : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

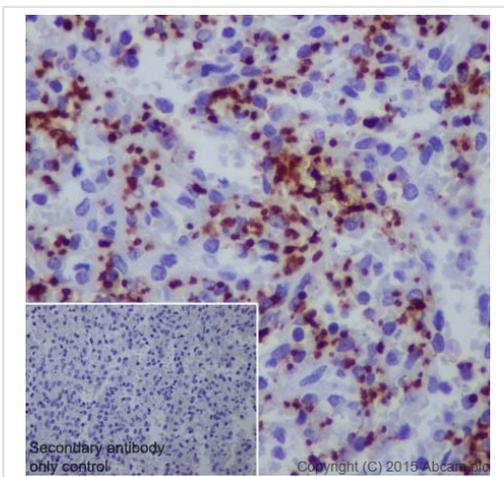
**Predicted band size:** 72 kDa

**Observed band size:** 120 kDa

[why is the actual band size different from the predicted?](#)

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [EPR19204] (ab210407)

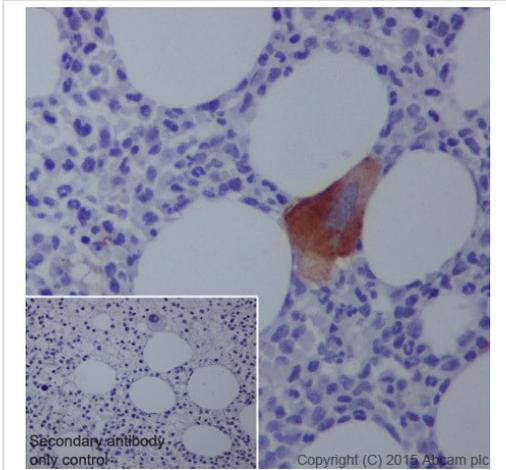
Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling CD42b with ab210407 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Membrane staining on Human spleen platelets is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [EPR19204] (ab210407)

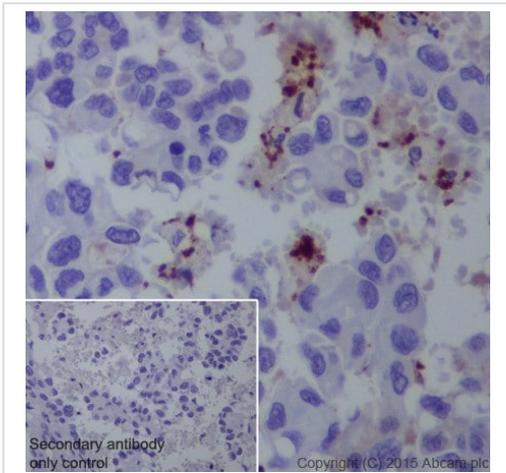
Immunohistochemical analysis of paraffin-embedded Human acute myelocytic leukemia tissue labeling CD42b with ab210407 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Membrane staining on megakaryocytes is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [EPR19204] (ab210407)

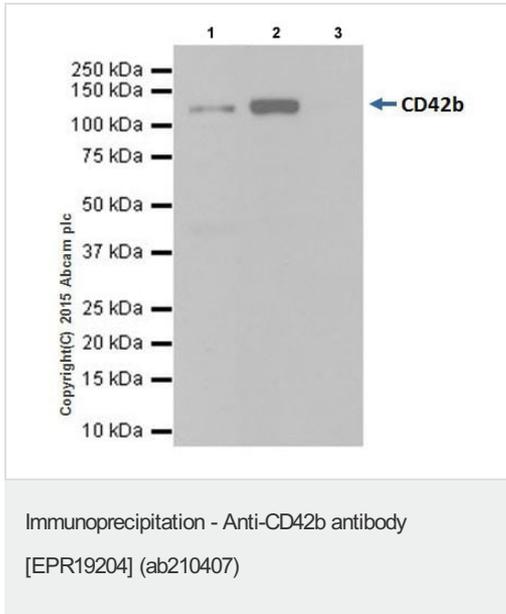
Immunohistochemical analysis of paraffin-embedded Human lung cancer tissue labeling CD42b with ab210407 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Membrane staining on lung cancer platelets is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



CD42b was immunoprecipitated from 1mg of Human spleen whole cell lysate with ab210407 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab210407 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: Human spleen whole cell lysate, 10µg (Input).

Lane 2: ab210407 IP in Human spleen whole cell lysate.

Lane 3: Rabbit IgG, monoclonal - Isotype Control (ab172730) instead of ab210407 in Human spleen whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CD42b antibody [EPR19204] (ab210407)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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### **Terms and conditions**

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